

25117/35

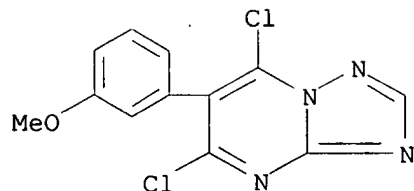
09333447✓

09272916.

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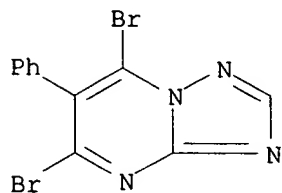
Page 1

22 OCT 99

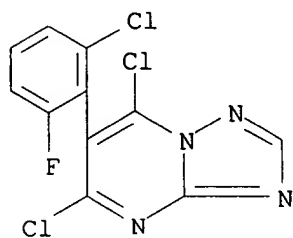


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

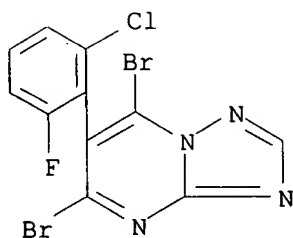
L3 4 ANSWERS REGISTRY COPYRIGHT 1999 ACS
IN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-phenyl- (9CI)
MF C11 H6 Br2 N4



L3 4 ANSWERS REGISTRY COPYRIGHT 1999 ACS
IN [1,2,4]Triazolo[1,5-a]pyrimidine,
5,7-dichloro-6-(2-chloro-6-fluorophenyl)-
(9CI)
MF C11 H4 Cl3 F N4



L3 4 ANSWERS REGISTRY COPYRIGHT 1999 ACS
IN [1,2,4]Triazolo[1,5-a]pyrimidine,
5,7-dibromo-6-(2-chloro-6-fluorophenyl)-
(9CI)
MF C11 H4 Br2 Cl F N4



ALL ANSWERS HAVE BEEN SCANNED

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.52	3.78

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Oct 15, 1999 (19991015/UP).

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.26	5.04

FILE 'REGISTRY' ENTERED AT 11:48:29 ON 22 OCT 1999
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STRUCTURE FILE UPDATES: 21 OCT 99 HIGHEST RN 244795-03-7
 DICTIONARY FILE UPDATES: 21 OCT 99 HIGHEST RN 244795-03-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

=> d his

(FILE 'HOME' ENTERED AT 11:28:18 ON 22 OCT 1999)

FILE 'REGISTRY' ENTERED AT 11:31:57 ON 22 OCT 1999
 L1 STRUCTURE UPLOADED
 L2 QUE L1
 L3 4 S L1

FILE 'STNGUIDE' ENTERED AT 11:36:03 ON 22 OCT 1999

FILE 'REGISTRY' ENTERED AT 11:48:29 ON 22 OCT 1999

=> s ll full

FULL SEARCH INITIATED 11:49:24 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 8514 TO ITERATE
 100.0% PROCESSED 8514 ITERATIONS

49 ANSWERS

SEARCH TIME: 00.00.01

L4 49 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	120.72	125.76

FILE 'CAPLUS' ENTERED AT 11:49:40 ON 22 OCT 1999
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FILE COVERS 1967 - 22 Oct 1999 VOL 131.ISS 17
FILE LAST UPDATED: 21 Oct 1999 (19991021/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s 14

L5 12 L4

=> d 15 bib abs hitstr 1-12

L5 ANSWER 1 OF 12 CAPLUS COPYRIGHT 1999 ACS

AN 1999:626195 CAPLUS

DN 131:228731

TI Preparation of 6-(2-halo-4-alkoxyphenyl)-triazolopyrimidines as agrochemical fungicides.

IN Pfrengle, Waldemar

PA American Cyanamid Company, USA

SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DT Patent

LA English

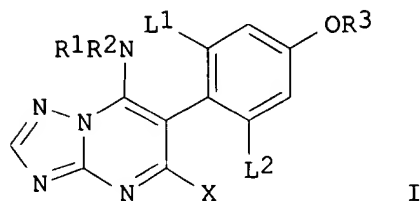
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9948893	A1	19990930	WO 1999-US5915	19990319
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,			
TM					
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	WO 9846608	A1	19981022	WO 1998-US5615	19980323
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,			

KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
 UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
 FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
 GA, GN, ML, MR, NE, SN, TD, TG

PRAI WO 1998-US5615 19980323
 US 1998-160899 19980925
 US 1997-843323 19970414
 US 1998-150572 19980910

GI



AB Title compds. [I; R1, R2 = H, (substituted) alkyl, alkenyl, alkynyl, alkadienyl, haloalkyl, aryl, heteroaryl, cycloalkyl, bicycloalkyl, heterocyclyl; R1R2N = (substituted) heterocyclyl; R3 = alkyl, alkenyl, alkynyl, phenylalkyl, alkoxyalkyl, polyalkoxyalkyl, Ph, haloalkyl; L1 =

H, F, Cl; L2 = F, Cl; X = halo], were prepd. Thus, 4-methylpiperidine, Et3N,

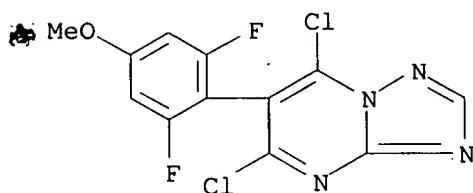
and 5,7-dichloro-(2,6-difluoro-4-methoxyphenyl)-1,2,4-triazolo[1,5-a]pyrimidine (prepn. given) were stirred 16 h to give 5-chloro-(2,6-difluoro-4-methoxyphenyl)-7-(4-methylpiperid-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine. The latter showed a min. inhibitory concn. of <0.05 .mu.g/mL against Alternaria solani.

IT 244092-41-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. of 6-(2-halo-4-alkoxyphenyl-triazolopyrimidines as agrochem. fungicides)

RN 244092-41-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



L5 ANSWER 2 OF 12 CAPLUS COPYRIGHT 1999 ACS

AN 1999:571812 CAPLUS

DN 131:181114

TI Preparation of fungicidal trifluoromethylalkylaminotriazolopyrimidine derivatives.

IN Pees, Klaus-Juergen; Krummel, Guenter; Cotter, Henry Van Tuyt; Albert, Guido; Rehnig, Annerose; May, Leslie; Pfrengle, Waldemar

PA American Cyanamid Company, USA

SO U.S., 10 pp.

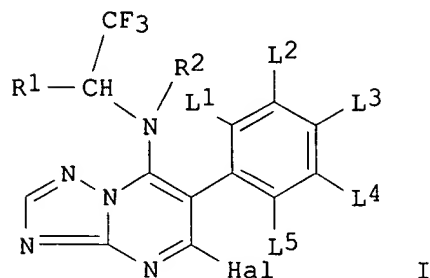
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5948783	A	19990907	US 1998-54580	19980403
PRAI	US 1997-43820		19970414		
OS	MARPAT 131:181114				
GI					



AB The trifluoromethylalkylaminotriazolopyrimidine derivs. I (R1 = H or Me; R2 = H, alkyl or alkynyl; Hal = Cl or Br; L1-5 = H or halo) are prepd. as fungicides.

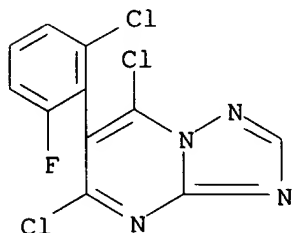
IT **159331-35-8**

RL: RCT (Reactant)

(reactant in prepn. of fungicidal trifluoromethylalkylaminotriazolopyrimidine derivs.)

RN 159331-35-8 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-chloro-6-fluorophenyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 12 CAPLUS COPYRIGHT 1999 ACS

AN 1999:529149 CAPLUS

DN 131:170358

TI Preparation of 7-alkyltriazolopyrimidines as selective agrochemical fungicides

IN Pfrengle, Waldemar; Pees, Klaus-Juergen; Albert, Guido

PA American Cyanamid Company, USA

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9941255	A1	19990819	WO 1999-US2808	19990209

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

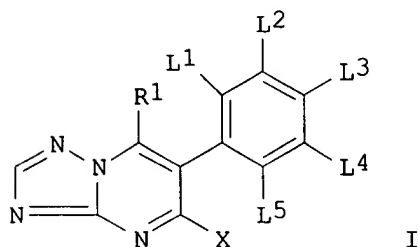
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-22288 19980211

US 1999-243851 19990203

OS MARPAT 131:170358

GI



AB The title compds. [I; R1 = (un)substituted alk(en)yl, alkynyl, alkadienyl,

aryl, or cycloalk(en)yl in which 1 CH₂ group may be replaced by O, S or NR₂; R₂ = H, alkyl; X = H, halo, OH, (halo)alkoxy, aryloxy, cyano, amino, etc.; L1-L5 = H, halo, (un)substituted alkyl, (un)substituted alkoxy,

NO₂,

cyano] were prepd. The new compds. are processed with carriers and, optionally, adjuvants, to afford fungicidal compns., useful in agricultural applications. For example, suspending 0.96 g Cu iodide in

25

mL THF under inert atm., cooling the suspension to -70.degree., adding 5 mL of n-hexyllithium soln. (2 M, in hexanes), stirring the mixt. for 45 min, adding a soln. of 1.6 g 5,7-dichloro-6-(2-chloro-6-fluorophenyl)-1,2,4-triazolo[1,5-a]pyrimidine in 10 mL THF, and stirring the whole for

15

min at -70.degree. gave 0.75 g 5-chloro-7-n-hexyl-6-(2-chloro-6-fluorophenyl)-1,2,4-triazolo[1,5-a]pyrimidine (m. 55-57.degree.) which inhibited mycelial growth of *Leptosphaeria nodorum* with MIC 12.5

.mu.g/mL.

Emulsion and suspension conc., wettable powder and H₂O-dispersible granule

formulations contg. I (R1 = cyclohexyl, L1 = L3 = L5 = F, L2 = L4 = H, X

=

Cl) were given.

IT

214707-02-5

RL: RCT (Reactant)

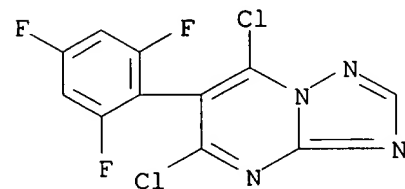
(amination with N-methyl-2,3-dehydropiperidine; prepn. of 7-alkyltriazolopyrimidines as selective agrochem. fungicides)

RN

214707-02-5 CAPLUS

CN

[1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



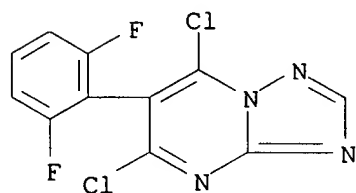
IT

238744-91-7

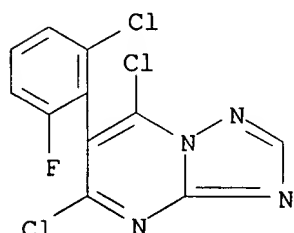
RL: RCT (Reactant)

(condensation with cyclohexylmagnesium bromide; prepn. of

7-alkyltriazolopyrimidines as selective agrochem. fungicides)
 RN 238744-91-7 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,6-difluorophenyl)-
 (9CI) (CA INDEX NAME)



IT 159331-35-8
 RL: RCT (Reactant)
 (substitution with n-hexyllithium; prepn. of
 7-alkyltriazolopyrimidines
 as selective agrochem. fungicides)
 RN 159331-35-8 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dichloro-6-(2-chloro-6-fluorophenyl)-
 (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 12 CAPLUS COPYRIGHT 1999 ACS
 AN 1998:708827 CAPLUS
 DN 129:302657
 TI Preparation of fungicidal
 [trifluoromethyl(alkyl)amino]triazolopyrimidines
 IN Pees, Klaus-Juergen; Krummel, Guenter; Cotter, Henry Van Tuyl; Rehnig,
 Annerose; May, Leslie; Pfrengle, Waldemar; Albert, Guido
 PA American Cyanamid Co., USA
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9846608	A1	19981022	WO 1998-US5615	19980323
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
	DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,				
	KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,				
	NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,				
	UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,				
	FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,				
	GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9868671	A1	19981111	AU 1998-68671	19980323
	EP 945453	A1	19990929	EP 1999-301910	19990312
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO				
	WO 9948893	A1	19990930	WO 1999-US5915	19990319

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,

TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1997-843323 19970414

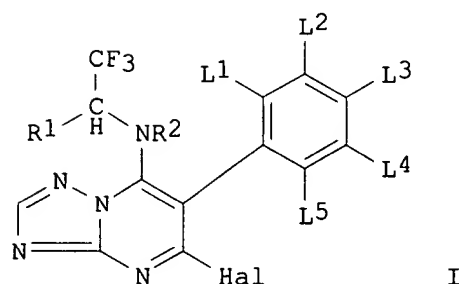
US 1998-150572 19980910

WO 1998-US5615 19980323

US 1998-160899 19980925

OS MARPAT 129:302657

GI



AB The title compds. [I; R1, R2 = H, (un)substituted alk(en)yl, alkynyl, alkadienyl or Ph; Hal = halo; L1-L5 = H, halo, alkyl, alkoxy, NO2], fungicides with selective activity, were prepd. by amination of 5,7-dihalo-6-phenyltriazolopyrimidines with trifluoroalkylamines. The new

compds. are processed with carriers and adjuvants to fungicidal compns. For example, a stirred mixt. of 1.4 mmol 5,7-dichloro-6-(2-chloro-6-fluorophenyl)-1,2,4-triazolo[1.5a]pyrimidine with 30 mL CH2Cl2 was treated

with a mixt. of 4.2 mmol CF3CH2NH2 and 10 mL CH2Cl2 and the whole was stirred for 16 h at ambient temp. to give I (R2 = L2 = L3 = L4 = H, L5 = F) (II; R1 = H, L1 = Cl). II (R1 = Me, L1 = F) (III) inhibited mycelial growth of Alternaria solani and Rhizoctonia solani with MIC 0.78 and 3.13 mg/mL, resp. Emulsion and suspension conc., wettable powder and H2O-dispersible granule formulations contg. III were given.

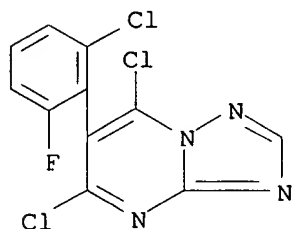
IT 159331-35-8

RL: RCT (Reactant)

(amination with trifluoroethylamine; prepn. of fungicidal [trifluoromethyl(alkyl)amino]triazolopyrimidines)

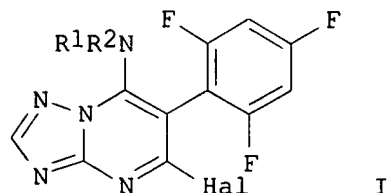
RN 159331-35-8 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-chloro-6-fluorophenyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 12 CAPLUS COPYRIGHT 1999 ACS
 AN 1998:708826 CAPLUS
 DN 129:316233
 TI Preparation of fungicidal (trifluorophenyl)triazolopyrimidines
 IN Pees, Klaus-jurgen; Albert, Guido
 PA American Cyanamid Co., USA
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9846607	A1	19981022	WO 1998-US5614	19980323
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9865768	A1	19981111	AU 1998-65768	19980323
PRAI	US 1997-843322		19970414		
	WO 1998-US5614		19980323		
OS	MARPAT 129:316233				
GI					



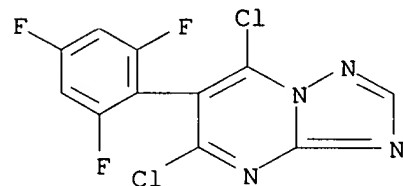
AB I (R1, R2 = H, alkyl, alkenyl, alkynyl, alkadienyl, haloalkyl, aryl, heteroaryl, cycloalkyl, bicycloalkyl, heterocyclyl; R1NR2 = heterocyclic ring; Hal = halo), which show agricultural fungicidal activity, were prepd. E.g., reaction of 5,7-dichloro-6-(2,4,6-trifluorophenyl)-1,2,4-triazolo[1,5-a]pyrimidine and Et2NH gave 5-chloro-6-(2,4,6-trifluorophenyl)-7-diethylamino-1,2,4-triazolo[1,5-a]pyrimidine. The effectiveness of I as agricultural fungicides was tested.

IT 214707-02-5

RL: RCT (Reactant)
 (prepn. of fungicidal (trifluorophenyl)triazolopyrimidines)

RN 214707-02-5 CAPLUS

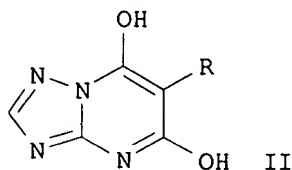
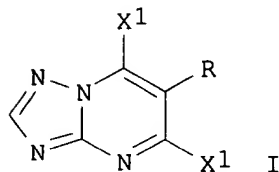
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,4,6-trifluorophenyl)-(9CI) (CA INDEX NAME)



L5 ANSWER 6 OF 12 CAPLUS COPYRIGHT 1999 ACS

AN 1998:604707 CAPLUS
 DN 129:245161
 TI Process for the preparation of dihaloazolopyrimidines
 IN Krummel, Gunter; Stumm, Karl-Otto; Pees, Klaus-Jurgen; Liers, Peter Heinz Rudi
 PA American Cyanamid Company, USA
 SO U.S., 8 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5808066	A	19980915	US 1996-729204	19961015
OS	CASREACT 129:245161; MARPAT 129:245161				
GI					



AB The title compds. [I; X1 = Cl, Br; R = (un)substituted Ph, naphthyl, etc.]

were prepd. by reacting malonic acid ester RCH(CO2R8)CO2R9 [R8, R9 = C1-6 alkyl] with heterocyclamine such as 3-amino-1,2,4-triazole to form an intermediate salt, which optionally may be acidified to form a dihydroxyazolopyrimidine II, followed by halogenation of the salt or the dihydroxyazolopyrimidine II.

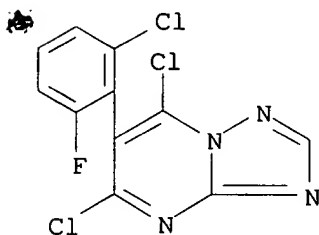
IT 159331-35-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for the prepn. of dihaloazolopyrimidines)

RN 159331-35-8 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dichloro-6-(2-chloro-6-fluorophenyl)-
 (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 12 CAPLUS COPYRIGHT 1999 ACS

AN 1998:228997 CAPLUS

DN 128:257444

TI Preparation of pentafluorophenylazolopyrimidines as fungicides

IN Pees, Klaus-Jurgen; Liers, Peter; Karla, Cornelia

PA American Cyanamid Co., USA

SO Eur. Pat. Appl., 18 pp.

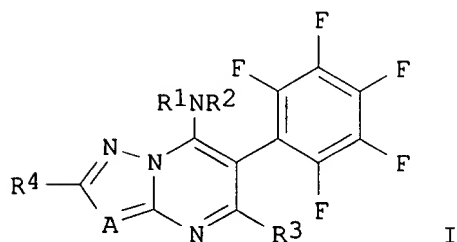
CODEN: EPXXDW

DT Patent

LA English

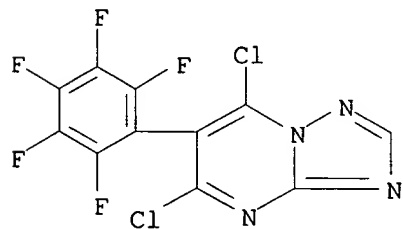
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 834513	A2	19980408	EP 1997-307813	19971003
	EP 834513	A3	19980603		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 5817663	A	19981006	US 1996-729704	19961007
	CN 1178792	A	19980415	CN 1997-119259	19970925
	JP 10152489	A2	19980609	JP 1997-284246	19971002
PRAI	US 1996-729704		19961007		
OS	CASREACT 128:257444; MARPAT 128:257444				
GI					



AB The title compds. [I; R1, R2 = H, (un)substituted alkyl, alkenyl, etc.; R1R2 with the adjacent nitrogen atom = (un)substituted heterocyclyl; R3 = H, halo, NR5R5 (wherein R5, R6 = R1, R2); R4 = H, alkyl, aryl; A = N, CR7 (R7 = R4)] which show selective fungicidal activity, were prepd. Thus, reaction of di-Et malonate with C6F6 in the presence of K2CO3 in DMF followed by treatment of the resulting di-Et pentafluorophenylmalonate with 2-amino-1,2,4-triazole in the presence of Bu3N at 180.degree., halogenation of 5,7-dihydroxy-6-pentafluorophenyl-1,2,4-triazolo[1,5-a]pyrimidine with POCl3, and reaction of 5,7-dichloro-6-pentafluorophenyl-1,2,4-triazolo[1,5-a]pyrimidine with iPrNH2 in the presence of Et3N in CH2Cl2 afforded I [R1 = H; R2 = iPr; R3 = Cl; R4 = H; A = N] which showed, e.g., MIC of 1.56 against Pyrenophora teres.

IT **205253-26-5P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. of pentafluorophenylazolopyrimidines as fungicides)
 RN 205253-26-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(pentafluorophenyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 1999 ACS
 AN 1997:402888 CAPLUS
 DN 127:17693
 TI Process for the preparation of dihaloazolopyrimidines
 IN Krummel, Guenther; Stumm, Karl-Otto; Pees, Klaus-Juergen; Liers, Peter Heinz Rudi
 PA American Cyanamid Company, USA

SO Eur. Pat. Appl., 15 pp.

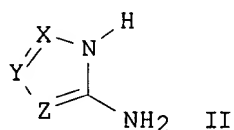
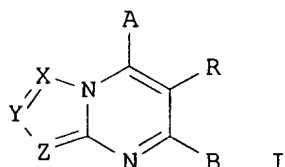
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 770615	A1	19970502	EP 1996-307528	19961016
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, NL, PT,				
SE	CA 2188905	AA	19970428	CA 1996-2188905	19961025
	BR 9605258	A	19980721	BR 1996-5258	19961025
PRAI	US 1995-8022	19951027			
OS	CASREACT 127:17693; MARPAT 127:17693				
GI					



AB The title compds. [I; A = B = Cl, Br; R = (un)substituted Ph, naphthyl, etc.; X = CR₁, N; Y = CR₂, N; Z = CR₃, N; R₁-R₃ = H, (un)substituted C₁-6 alkyl; R₁R₂ = form (un)substituted arom. ring] were prepd. by reacting malonic acid ester RCH(CO₂R₈)CO₂R₉ (wherein R₈, R₉ = C₁-6 alkyl) with heterocyclamine II followed by halogenation of the corresponding dihydroxyazolopyrimidine [I; A = B = OH] or its salt.

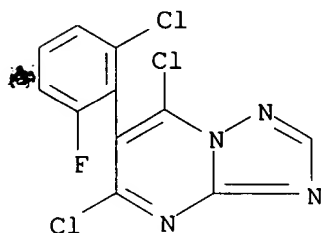
IT 159331-35-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for the prepn. of dihaloazolopyrimidines)

RN 159331-35-8 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine,
5,7-dichloro-6-(2-chloro-6-fluorophenyl)-
(9CI) (CA INDEX NAME)



L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 1999 ACS

AN 1997:234523 CAPLUS

DN 126:234733

TI Preparation of dihalotriazolopyrimidine derivatives as fungicides

IN Becher, Heinz-manfred; Pees, Klaus-jurgen

PA Shell Internationale Research Maatschappij B.V., Neth.

SO U.S., 9 pp. Cont. of U.S. Ser. No. 424,535.

CODEN: USXXAM

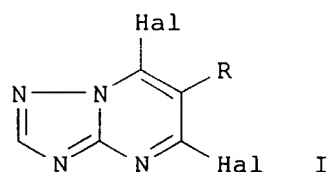
DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 5612345 A 19970318 US 1995-464349 19950605
 US 5854252 A 19981229 US 1995-424535 19950828
 PRAI US 1995-424535 19950828
 EP 1993-103464 19930304
 WO 1994-EP635 19940303
 OS MARPAT 126:234733
 GI



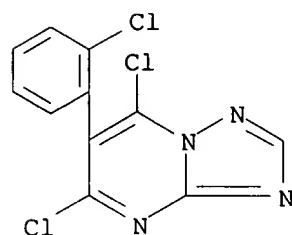
AB The dihalotriazolopyrimidine derivs. I [R = (un)substituted alkyl, alkoxy, cycloalkyl, aryl, aryloxy or heterocyclyl; Hal = halo] are prepd. as fungicides.

IT 159331-22-3P 159331-23-4P 159331-25-6P
 159331-26-7P 159331-27-8P 159331-28-9P
 159331-29-0P 159331-30-3P 159331-31-4P
 159331-32-5P 159331-33-6P 159331-34-7P
 159331-36-9P 159331-37-0P 159331-38-1P
 159331-39-2P 159331-40-5P 159331-41-6P
 159331-42-7P 159331-51-8P 159331-52-9P
 159331-53-0P 159331-54-1P 159331-56-3P
 159331-57-4P 159331-58-5P 159331-59-6P
 159331-62-1P 159331-63-2P 159331-64-3P
 159331-65-4P 159331-66-5P 159331-69-8P
 159331-70-1P 159331-71-2P 159331-72-3P
 159331-73-4P 188430-06-0P 188430-07-1P
 188430-08-2P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. as fungicide)

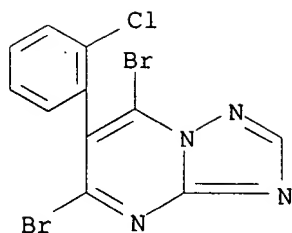
RN 159331-22-3 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-chlorophenyl)- (9CI)
 (CA INDEX NAME)

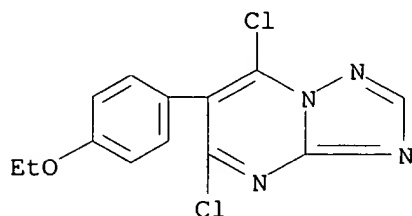


RN 159331-23-4 CAPLUS

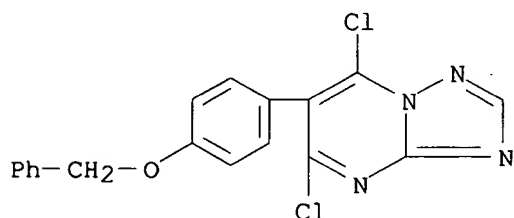
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-(2-chlorophenyl)- (9CI)
 (CA INDEX NAME)



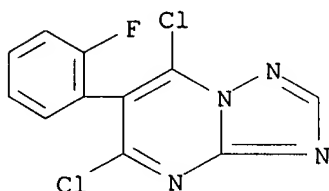
RN 159331-25-6 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-ethoxyphenyl)- (9CI)
 (CA INDEX NAME)



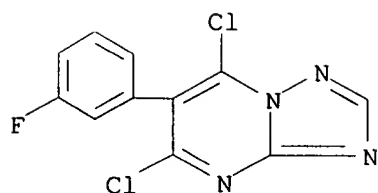
RN 159331-26-7 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dichloro-6-[4-(phenylmethoxy)phenyl]-
 (9CI) (CA INDEX NAME)



RN 159331-27-8 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-fluorophenyl)- (9CI)
 (CA INDEX NAME)

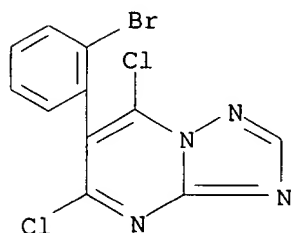


RN 159331-28-9 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3-fluorophenyl)- (9CI)
 (CA INDEX NAME)



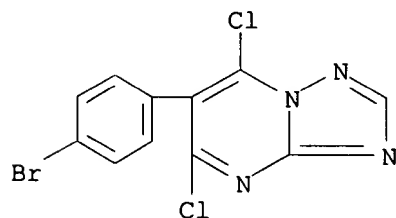
RN 159331-29-0 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 6-(2-bromophenyl)-5,7-dichloro- (9CI)
(CA INDEX NAME)



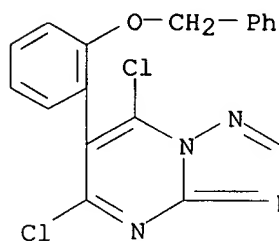
RN 159331-30-3 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 6-(4-bromophenyl)-5,7-dichloro- (9CI)
(CA INDEX NAME)



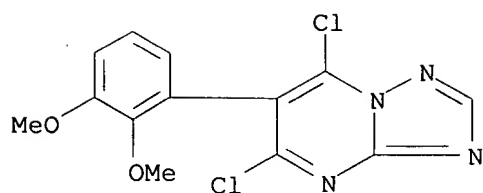
RN 159331-31-4 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine,
5,7-dichloro-6-[2-(phenylmethoxy)phenyl]-
(9CI) (CA INDEX NAME)



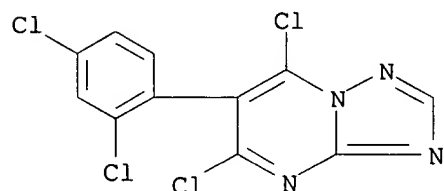
RN 159331-32-5 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,3-dimethoxyphenyl)-
(9CI) (CA INDEX NAME)



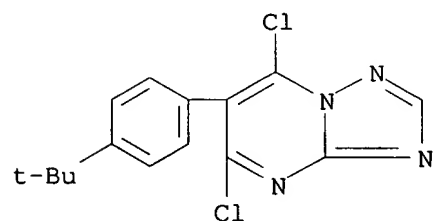
RN 159331-33-6 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,4-dichlorophenyl)-
(9CI) (CA INDEX NAME)



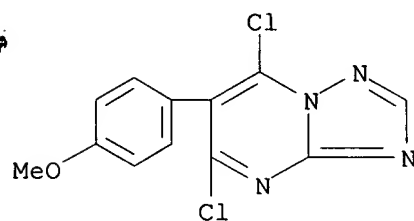
RN 159331-34-7 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-[4-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)



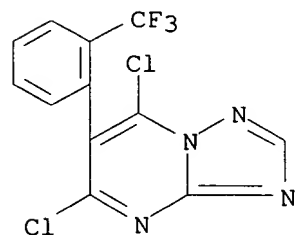
RN 159331-36-9 CAPLUS

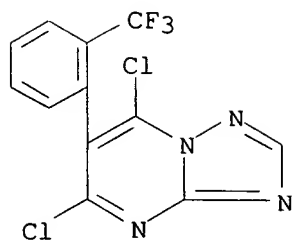
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-methoxyphenyl)- (9CI)
(CA INDEX NAME)



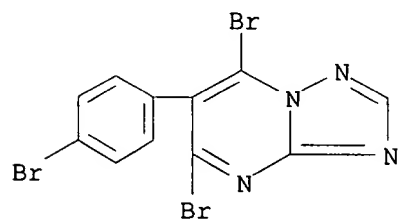
RN 159331-37-0 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-[2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

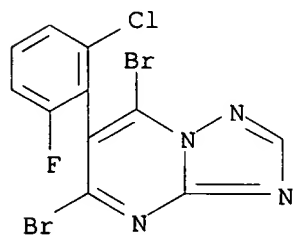




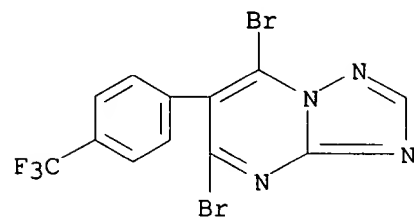
RN 159331-38-1 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-(4-bromophenyl)- (9CI)
 (CA INDEX NAME)



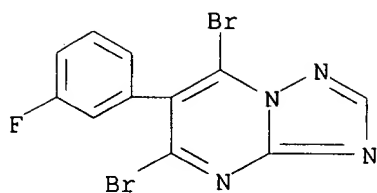
RN 159331-39-2 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dibromo-6-(2-chloro-6-fluorophenyl)-
 (9CI) (CA INDEX NAME)



RN 159331-40-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

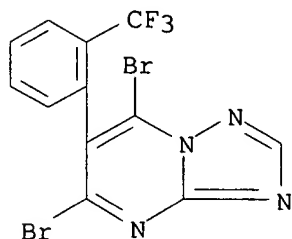


RN 159331-41-6 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-(3-fluorophenyl)- (9CI)
 (CA INDEX NAME)



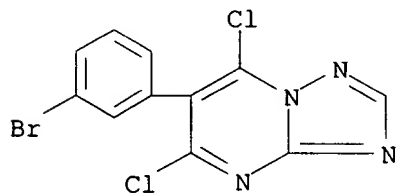
RN 159331-42-7 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-[2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



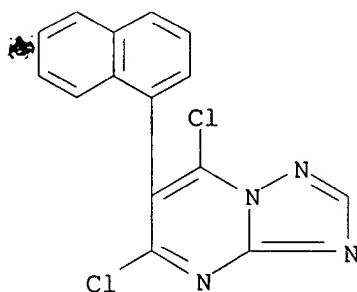
RN 159331-51-8 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 6-(3-bromophenyl)-5,7-dichloro- (9CI) (CA INDEX NAME)



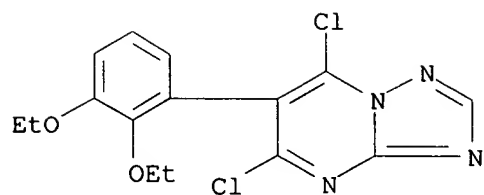
RN 159331-52-9 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



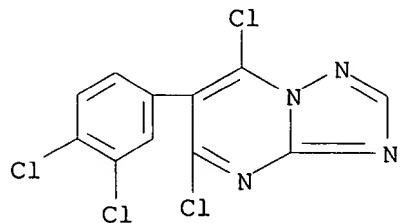
RN 159331-53-0 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,3-diethoxyphenyl)- (9CI) (CA INDEX NAME)



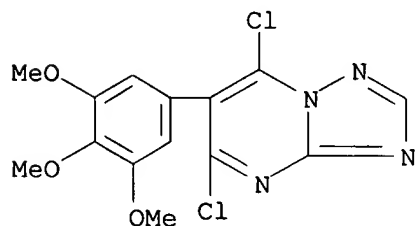
RN 159331-54-1 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3,4-dichlorophenyl)-
(9CI) (CA INDEX NAME)



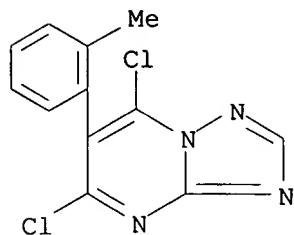
RN 159331-56-3 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine,
5,7-dichloro-6-(3,4,5-trimethoxyphenyl)-
(9CI) (CA INDEX NAME)



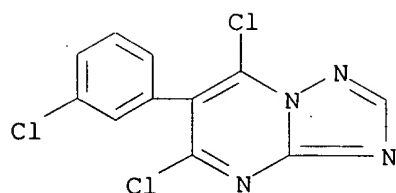
RN 159331-57-4 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-methylphenyl)- (9CI)
(CA INDEX NAME)



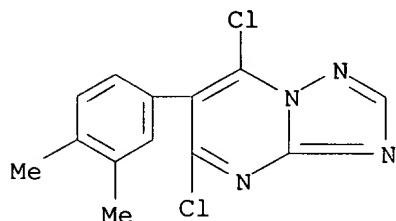
RN 159331-58-5 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3-chlorophenyl)- (9CI)
(CA INDEX NAME)



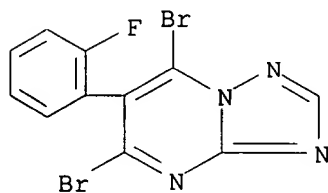
RN 159331-59-6 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3,4-dimethylphenyl)-
(9CI) (CA INDEX NAME)



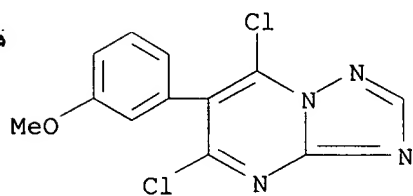
RN 159331-62-1 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-(2-fluorophenyl)- (9CI)
(CA INDEX NAME)



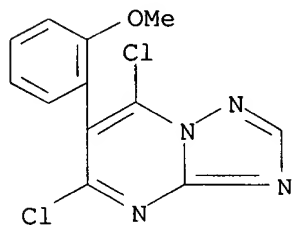
RN 159331-63-2 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3-methoxyphenyl)- (9CI)
(CA INDEX NAME)

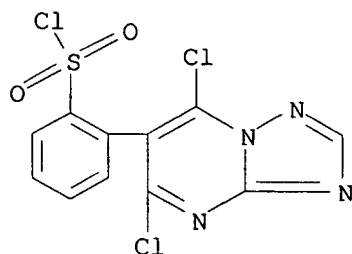


RN 159331-64-3 CAPLUS

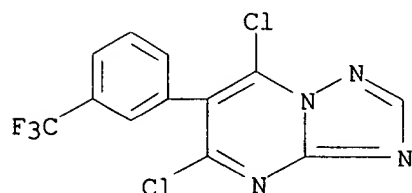
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-methoxyphenyl)- (9CI)
(CA INDEX NAME)



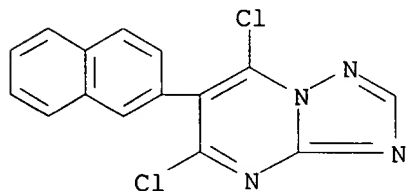
RN 159331-65-4 CAPLUS
CN Benzenesulfonyl chloride,
2-(5,7-dichloro[1,2,4]triazolo[1,5-a]pyrimidin-6-
yl)- (9CI) (CA INDEX NAME)



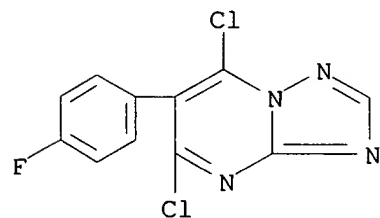
RN 159331-66-5 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



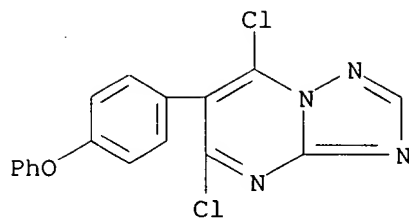
RN 159331-69-8 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-naphthalenyl)- (9CI)
(CA INDEX NAME)



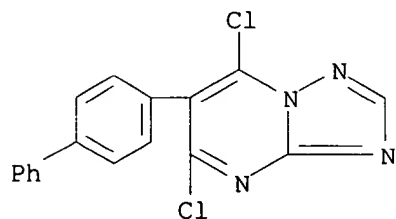
RN 159331-70-1 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-fluorophenyl)- (9CI)
(CA INDEX NAME)



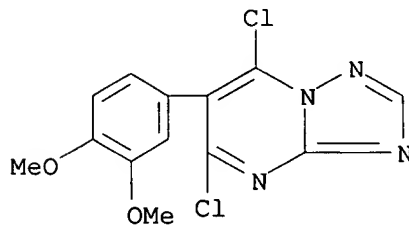
RN 159331-71-2 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-phenoxyphenyl)- (9CI)
(CA INDEX NAME)



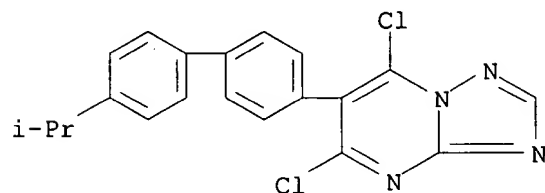
RN 159331-72-3 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 6-[1,1'-biphenyl]-4-yl-5,7-dichloro-
 (9CI) (CA INDEX NAME)



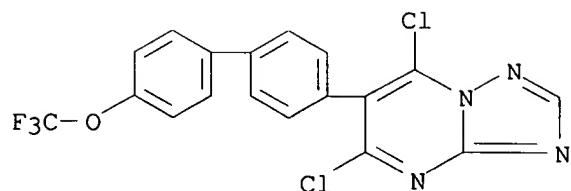
RN 159331-73-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3,4-dimethoxyphenyl)-
 (9CI) (CA INDEX NAME)



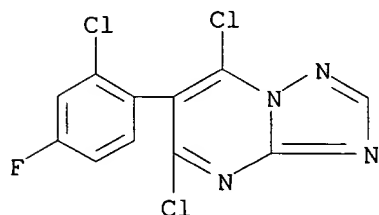
RN 188430-06-0 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dichloro-6-[4'-(1-methylethyl)[1,1'-
 biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 188430-07-1 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-[4'-
 (trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)

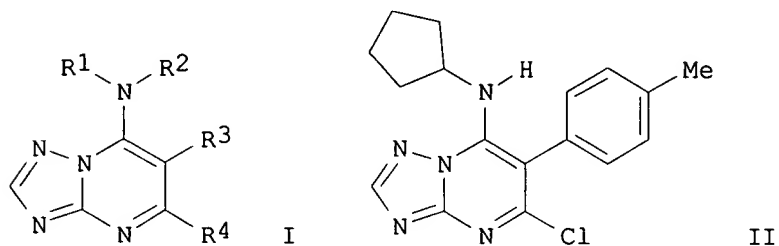


RN 188430-08-2 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dichloro-6-(2-chloro-4-fluorophenyl)-
 (9CI) (CA INDEX NAME)



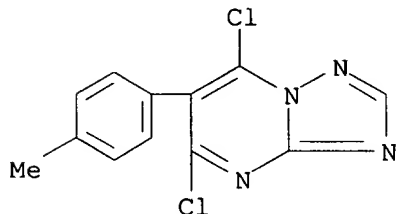
L5 ANSWER 10 OF 12 CAPLUS COPYRIGHT 1999 ACS
 AN 1997:127978 CAPLUS
 DN 126:171605
 TI Preparation of triazolopyrimidines as agrochemical fungicides
 IN Pees, Klaus Jurgen; Albert, Guido
 PA American Cyanamid Company, USA
 SO U.S., 23 pp. Cont.-in-part of U.S. Ser. No. 276, 384, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5593996	A	19970114	US 1995-412401	19950328
PRAI	EP 1991-122422		19911230		
	US 1992-998113		19921229		
	US 1994-276384		19940718		
OS	MARPAT 126:171605				
GI					

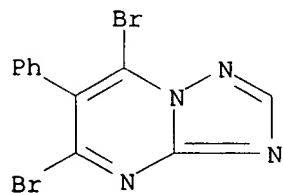


AB The title compds. [I; R1 = C1-12 alkyl, C2-6 alkenyl, C2-6 alkynyl, etc.;
 R2 = H, C1-4 alkyl; R1R2 = (un)substituted pyrrolidinyl, piperidinyl,
 dihydropyridyl; R3 = (un)substituted Ph, naphthyl; R4 = halo,
 (un)substituted NH2], useful as fungicides, were prep'd. Thus, reaction
 of
 5,7-dichloro-6-(4-methylphenyl)-1,2,4-triazolo[1,5-a]pyrimidine with
 cyclopentylamine in the presence of Et3N in THF afforded 87% II which

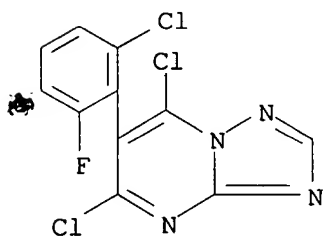
showed MIC of 12.5 .mu.g/mL and 1.56 .mu.g/mL against Botrytis cinerea
and Alternaria solani, resp.
IT 150988-31-1 150988-32-2 159331-35-8
RL: RCT (Reactant)
(prepn. of triazolopyrimidines as agrochem. fungicides)
RN 150988-31-1 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-methylphenyl)- (9CI)
(CA INDEX NAME)



RN 150988-32-2 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-phenyl- (9CI) (CA INDEX NAME)



RN 159331-35-8 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidine,
5,7-dichloro-6-(2-chloro-6-fluorophenyl)-
(9CI) (CA INDEX NAME)



L5 ANSWER 11 OF 12 CAPLUS COPYRIGHT 1999 ACS
AN 1995:219111 CAPLUS
DN 122:133227
TI Preparation of 5,7-dihalo-[1,2,4]triazolo[1,5-a]pyrimidines as fungicides
IN Pees, Klaus-Juergen; Becher, Heinz-Manfred
PA Shell Internationale Research Maatschappij B.V., Neth.
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9420501	A1	19940915	WO 1994-EP635	19940303

W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

IL 108747	A1	19990312	IL 1994-108747	19940223
CA 2157293	AA	19940915	CA 1994-2157293	19940303
AU 9462580	A1	19940926	AU 1994-62580	19940303
AU 690899	B2	19980507		
ZA 9401485	A	19941110	ZA 1994-1485	19940303
BR 9405988	A	19951226	BR 1994-5988	19940303
EP 699200	A1	19960306	EP 1994-909922	19940303
EP 699200	B1	19971029		

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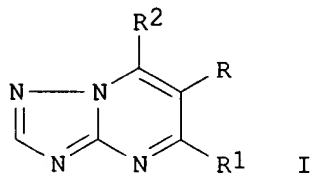
SE

CN 1119015	A	19960320	CN 1994-191368	19940303
CN 1041927	B	19990203		
HU 73163	A2	19960628	HU 1995-1926	19940303
JP 08507505	T2	19960813	JP 1994-519576	19940303
AT 159722	E	19971115	AT 1994-909922	19940303
CZ 284158	B6	19980812	CZ 1995-2233	19940303
US 5854252	A	19981229	US 1995-424535	19950828

PRAI EP 1993-103464 19930304
 WO 1994-EP635 19940303

OS MARPAT 122:133227

GI



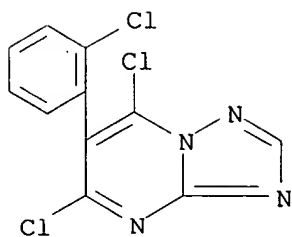
AB Fungicidal 5,7-dihalo-[1,2,4]triazolo[1,5-a]pyrimidines I (R = alkyl, alkoxy, etc.; R1, R2 = halo) were disclosed as agrochem. fungicides.

IT 159331-22-3P, 5,7-Dichloro-6-(2-chlorophenyl)-[1,2,4]Triazolo[1,5-a]pyrimidine 159331-23-4P, 5,7-Dibromo-6-(2-chlorophenyl)-[1,2,4]Triazolo[1,5-a]pyrimidine 159331-25-6P
 159331-26-7P 159331-27-8P 159331-28-9P
 159331-29-0P 159331-30-3P 159331-31-4P
 159331-32-5P 159331-33-6P 159331-34-7P
 159331-35-8P 159331-36-9P 159331-37-0P
 159331-38-1P 159331-39-2P 159331-40-5P
 159331-41-6P 159331-42-7P 159331-51-8P
 159331-52-9P 159331-53-0P 159331-54-1P
 159331-56-3P 159331-57-4P 159331-58-5P
 159331-59-6P 159331-62-1P 159331-63-2P
 159331-64-3P 159331-65-4P 159331-66-5P
 159331-67-6P 159331-68-7P 159331-69-8P
 159331-70-1P 159331-71-2P 159331-72-3P
 159331-73-4P

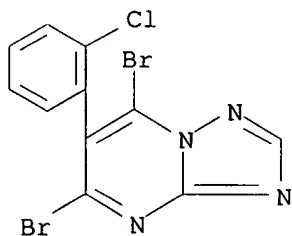
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 5,7-dihalo-[1,2,4]triazolo[1,5-a]pyrimidines agrochem. fungicides)

RN 159331-22-3 CAPLUS

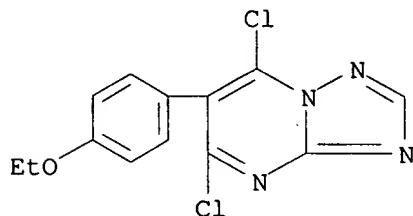
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-chlorophenyl)- (9CI)
 (CA INDEX NAME)



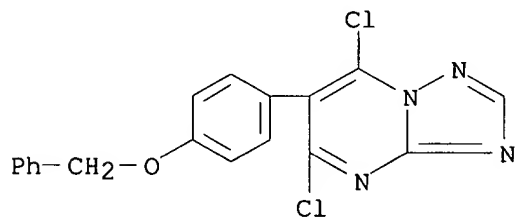
RN 159331-23-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-(2-chlorophenyl)- (9CI)
 (CA INDEX NAME)



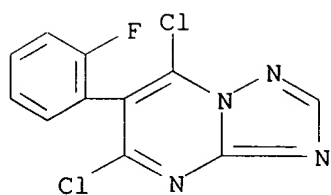
RN 159331-25-6 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-ethoxyphenyl)- (9CI)
 (CA INDEX NAME)



RN 159331-26-7 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dichloro-6-[4-(phenylmethoxy)phenyl]-
 (9CI) (CA INDEX NAME)

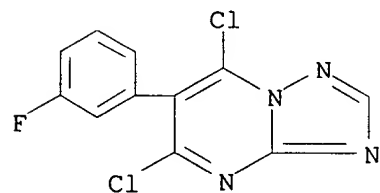


RN 159331-27-8 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-fluorophenyl)- (9CI)
 (CA INDEX NAME)



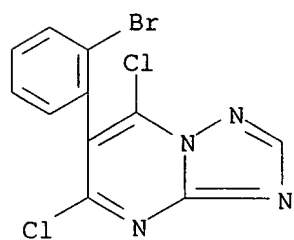
RN 159331-28-9 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3-fluorophenyl)- (9CI)
(CA INDEX NAME)



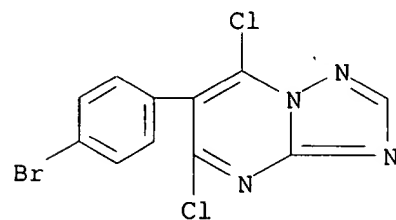
RN 159331-29-0 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 6-(2-bromophenyl)-5,7-dichloro- (9CI)
(CA INDEX NAME)



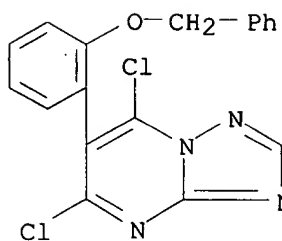
RN 159331-30-3 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 6-(4-bromophenyl)-5,7-dichloro- (9CI)
(CA INDEX NAME)



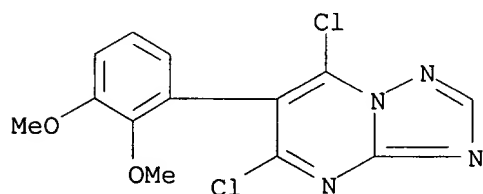
RN 159331-31-4 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine,
5,7-dichloro-6-[2-(phenylmethoxy)phenyl]-
(9CI) (CA INDEX NAME)



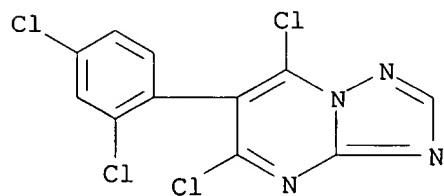
RN 159331-32-5 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,3-dimethoxyphenyl)-
(9CI) (CA INDEX NAME)



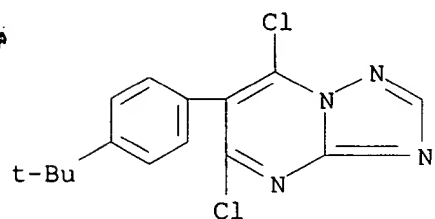
RN 159331-33-6 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,4-dichlorophenyl)-
(9CI) (CA INDEX NAME)



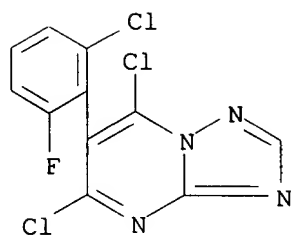
RN 159331-34-7 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-[4-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

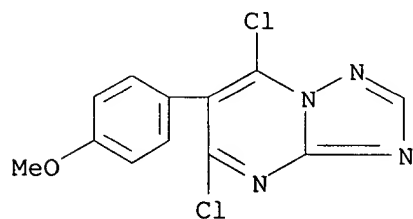


RN 159331-35-8 CAPLUS

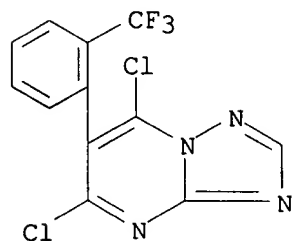
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-chloro-6-fluorophenyl)-
(9CI) (CA INDEX NAME)



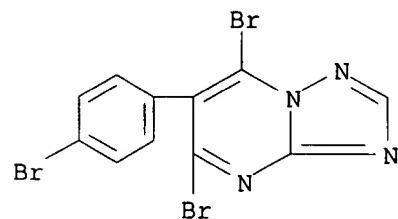
RN 159331-36-9 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-methoxyphenyl)- (9CI)
 (CA INDEX NAME)



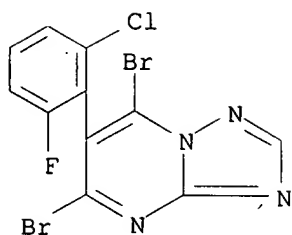
RN 159331-37-0 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-[2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



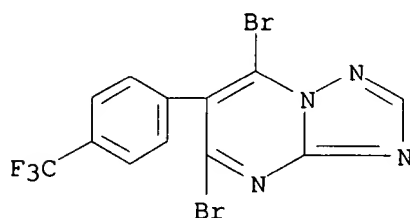
RN 159331-38-1 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-(4-bromophenyl)- (9CI)
 (CA INDEX NAME)



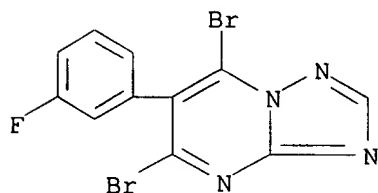
RN 159331-39-2 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dibromo-6-(2-chloro-6-fluorophenyl)-
 (9CI) (CA INDEX NAME)



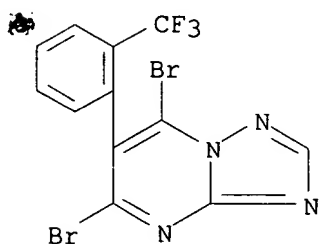
RN 159331-40-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



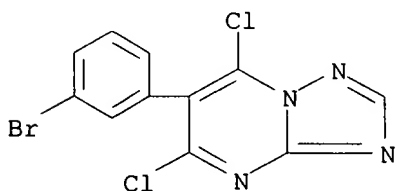
RN 159331-41-6 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-(3-fluorophenyl)- (9CI) (CA INDEX NAME)

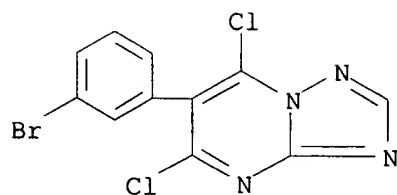


RN 159331-42-7 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-[2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



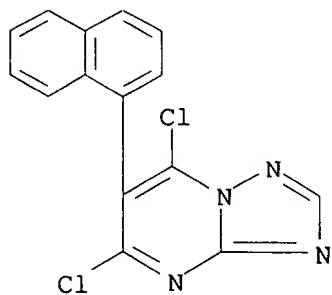
RN 159331-51-8 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 6-(3-bromophenyl)-5,7-dichloro- (9CI) (CA INDEX NAME)





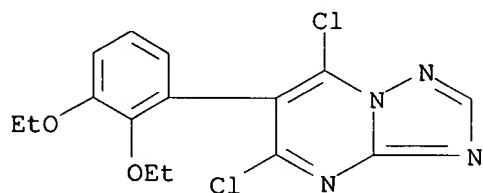
RN 159331-52-9 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(1-naphthalenyl)- (9CI)
(CA INDEX NAME)



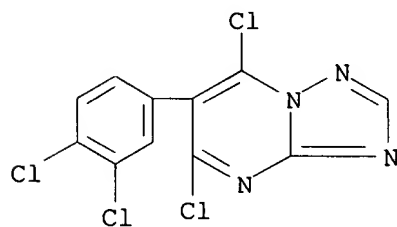
RN 159331-53-0 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2,3-diethoxyphenyl)- (9CI) (CA INDEX NAME)



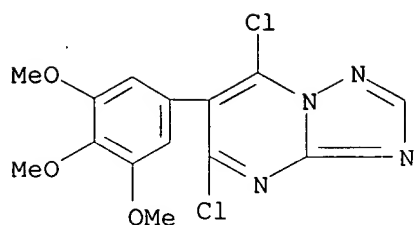
RN 159331-54-1 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3,4-dichlorophenyl)- (9CI) (CA INDEX NAME)

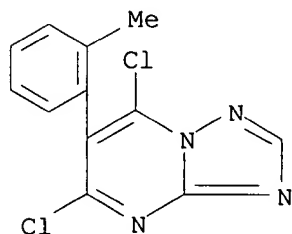


RN 159331-56-3 CAPLUS

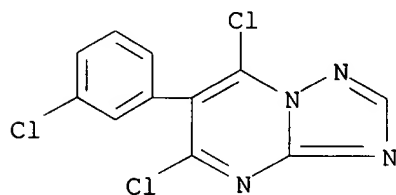
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



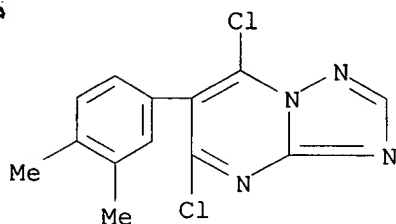
RN 159331-57-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-methylphenyl)- (9CI)
 (CA INDEX NAME)



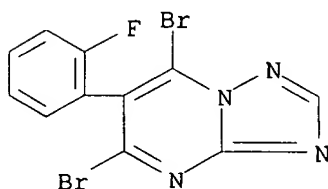
RN 159331-58-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3-chlorophenyl)- (9CI)
 (CA INDEX NAME)

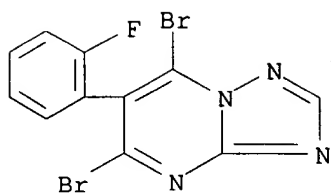


RN 159331-59-6 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3,4-dimethylphenyl)-
 (9CI) (CA INDEX NAME)



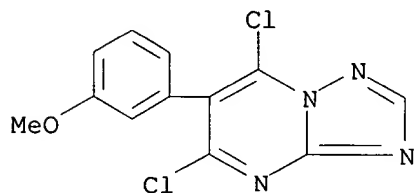
RN 159331-62-1 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-(2-fluorophenyl)- (9CI)
 (CA INDEX NAME)





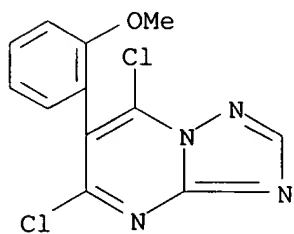
RN 159331-63-2 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3-methoxyphenyl)- (9CI)
(CA INDEX NAME)



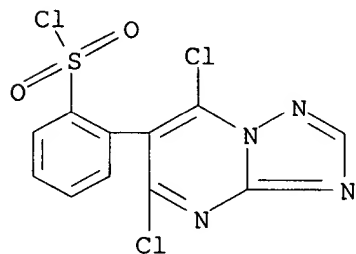
RN 159331-64-3 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-methoxyphenyl)- (9CI)
(CA INDEX NAME)



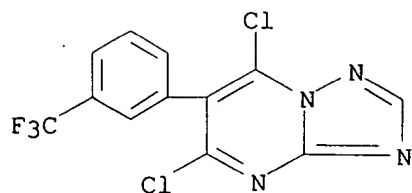
RN 159331-65-4 CAPLUS

CN Benzenesulfonyl chloride,
2-(5,7-dichloro[1,2,4]triazolo[1,5-a]pyrimidin-6-yl)- (9CI) (CA INDEX NAME)

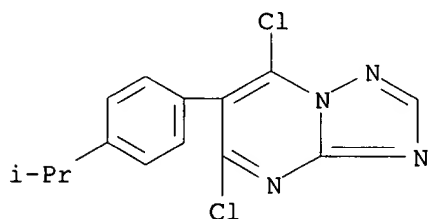


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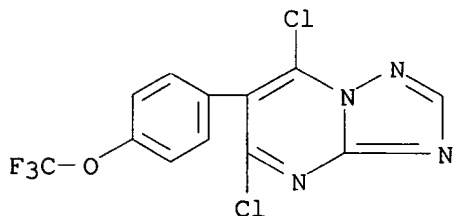
CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



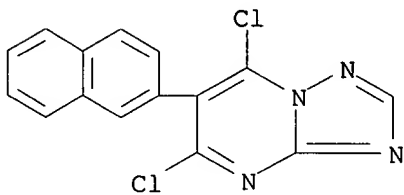
RN 159331-67-6 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine,
 5,7-dichloro-6-[4-(1-methylethyl)phenyl]-
 (9CI) (CA INDEX NAME)



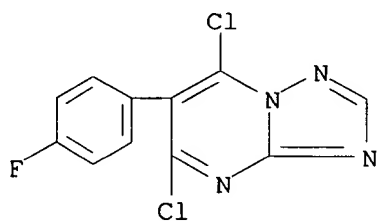
RN 159331-68-7 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-[4-
 (trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



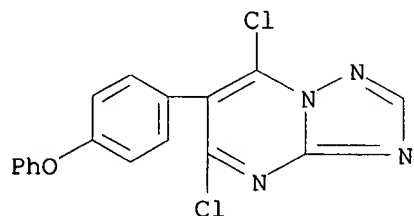
RN 159331-69-8 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(2-naphthalenyl)- (9CI)
 (CA INDEX NAME)



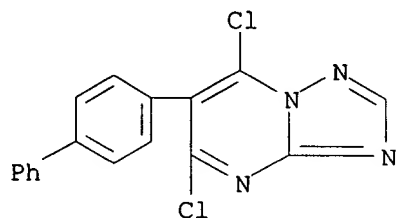
RN 159331-70-1 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-fluorophenyl)- (9CI)
 (CA INDEX NAME)



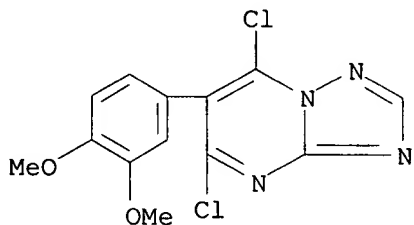
RN 159331-71-2 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-phenoxyphenyl)- (9CI)
 (CA INDEX NAME)



RN 159331-72-3 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 6-[1,1'-biphenyl]-4-yl-5,7-dichloro-
 (9CI) (CA INDEX NAME)



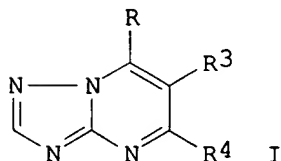
RN 159331-73-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(3,4-dimethoxyphenyl)-
 (9CI) (CA INDEX NAME)



L5 ANSWER 12 OF 12 CAPLUS COPYRIGHT 1999 ACS
 AN 1993:671190 CAPLUS
 DN 119:271190
 TI Triazolopyrimidine derivatives with fungicidal activity
 IN Pees, Klaus Juergen; Albert, Guido
 PA Shell Internationale Research Maatschappij B. V.; Neth.
 SO Eur. Pat. Appl., 38 pp.
 CODEN: EPXXDW
 DT Patent
 LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 550113	A2	19930707	EP 1992-204097	19921228
	EP 550113	A3	19930804		
	EP 550113	B1	19971015		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	AU 9230435	A1	19930701	AU 1992-30435	19921224
	AU 667204	B2	19960314		
	BR 9205172	A	19930706	BR 1992-5172	19921228
	ZA 9210043	A	19930728	ZA 1992-10043	19921228
	CN 1075144	A	19930811	CN 1992-115232	19921228
	CN 1033643	B	19961225		
	HU 63305	A2	19930830	HU 1992-4135	19921228
	JP 05271234	A2	19931019	JP 1992-358632	19921228
	PL 171579	B1	19970530	PL 1992-312883	19921228
	EP 782997	A2	19970709	EP 1997-105710	19921228
	EP 782997	A3	19980722		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	IL 104244	A1	19970713	IL 1992-104244	19921228
	RU 2089552	C1	19970910	RU 1992-16218	19921228
	AT 159256	E	19971115	AT 1992-204097	19921228
	ES 2108727	T3	19980101	ES 1992-204097	19921228
	PL 174047	B1	19980630	PL 1992-297160	19921228
	CA 2086404	AA	19930701	CA 1992-2086404	19921229
	CN 1141119	A	19970129	CN 1996-103723	19960322
PRAI	EP 1991-122422	19911230			
	EP 1992-204097	19921228			
OS	MARPAT 119:271190				
GI					

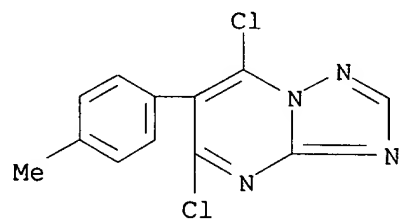


AB Amination of triazolopyrimidine derivs. I [R, R4 = halo; R3 = (un)substituted aryl] with amines HNR1R2 [R1 = (un)substituted alkyl, alkenyl, alkynyl, alkadienyl, cycloalkyl, bicycloalkyl, heterocyclyl; R2 = H, alkyl; or NR1R2 = (un)substituted heterocyclyl] and optional subsequent reaction(s) give claimed title compds. I [R = NR1R2, R1-R3 = same, R4 = halo, (un)substituted amino], useful as fungicides. Apple cuttings of the variety Morgenduft, (6 wk old) were treated with a soln. of test compd. I (R = cyclopentylamino, R3 = Ph, R4 = Br) at 400 ppm in water/acetone/Triton X or water/methanol/Triton X. After 24 h., the plants were infected with *Venturia inaequalis* (about 50,000 conidia/mL), and after incubation for 14 days showed no infection.

IT 150988-31-1, 5,7-Dichloro-6-(4-methylphenyl)-1,2,4-triazolo[1,5-a]pyrimidine 150988-32-2, 5,7-Dibromo-6-phenyl-1,2,4-triazolo[1,5-a]pyrimidine
 RL: RCT (Reactant)
 (amination of, in prepn. of fungicide)

RN 150988-31-1 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dichloro-6-(4-methylphenyl)- (9CI)
 (CA INDEX NAME)



RN 150988-32-2 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5,7-dibromo-6-phenyl- (9CI) (CA INDEX NAME)

